

THE RING

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UVIC
UNIVERSITY OF VICTORIA

UVic generates multi-million dollars in economic activity to province, says new study

BY TERESA MOORE

UVic returns \$1.26 to taxpayers for every dollar of direct public financial support it receives, according to a report released this week. The *Economic Impact of the University of Victoria* was released at a news conference held in the Senate Chambers and attended by over 50 local business people, bankers, elected officials, faculty, staff and media. President David Strong was joined by Elizabeth Cull, Minister of Finance and Corporate Relations, and Dan McAllister, president of the Greater Victoria Chamber of Commerce, to announce the report's findings.

The study examines the dollar impact of UVic on the economies of the Capital Regional District (CRD), and B.C. and on the finances of the federal and provincial governments. It concludes that the University creates enormous economic benefits for the local region and the province.

Nearly \$260 million a year is contributed to the CRD through UVic spending and 74 cents of every dollar of university revenue is spent on goods and services within the CRD. UVic research activities also generate over \$25 million a year.

"Despite financial pressures, UVic continues to maintain and improve the quality of education we offer and continues to provide significant economic benefits to the region, province and governments," says Strong.

who stressed that the study, which is based on data from 1993-94, uses very conservative estimates in order to avoid overstating the University's impact.

The most significant economic impacts are in the areas of job creation and higher income levels. UVic is the fourth largest employer in the CRD, directly employing 3,100 people who earn \$115 million in wages and salaries. UVic's spending in the community indirectly supports another 7,000 jobs bringing the total number of jobs supported by the University to approximately 10,000 or seven percent of the local workforce.

In addition, graduates of the University of Victoria contribute substantially to the economy and to the federal and provincial governments through taxes.

Each year, recipients of UVic undergraduate degrees earn average approximately \$7,000 more with a degree than they would have earned without one. Eighty-five percent of UVic grads live, work, and pay taxes in British Columbia and, based on 1994 federal and provincial income and sales tax rates, the provincial government's \$99 million investment in UVic's operations in 1993-94 provided a return of \$124 million. This amounts to a return of \$1.26 on every dollar invested by the provincial government in the education of a UVic student.

"These findings reinforce

what our government has been saying all along—that one of the best investments in our future is education and skills training for our people. It pays off in better jobs for British Columbians and it pays off in greater wealth in our community," says Cull.

The study also examined the change in income and employment of the CRD and the province if UVic did not exist. It estimates that if UVic did not exist in 1993-94, approximately \$220 million in economic activity and 8,400 jobs would have been lost to the CRD. The province would have been poorer by \$97 million and 3,700 jobs.

"UVic's contribution to Greater Victoria is incredible," says McAllister. "The roots of this great institution have grown deep and show no signs of letting up. There are few people in the region who are not affected by the existence of UVic."

This is the fourth study that examines the University's economic impact. Earlier studies, completed in 1978, 1989 and 1994, looked only at UVic's impact on the CRD. The current study, which was conducted by the Office of Institutional Analysis (IA) and written by Stephen Kosempel, a graduate Co-op student in economics, also examines the returns to society and government from educating students and pursuing research. Copies of the report are available from IA.

Bonfire for the families

Campus Security invites family student housing kids to Hallowe'en bonfire

UVic Campus Security will hold a free Hallowe'en bonfire for all parents and kids from the Lam Family Student Housing Complex on Oct. 31 at 6 p.m. in parking lot 7. There will be free food, treats, a crime prevention display, and a big bonfire. Bring a lawn chair and wear your scariest costume.



UVic's economic impact on Greater Victoria and the province

- UVic supports 10,000 jobs and 7 per cent of the workforce of the CRD
- UVic pumps \$260 million into the local economy each year
- UVic research generates \$25 million a year
- UVic is a good investment—for every dollar spent \$1.26 is returned to the taxpayer

Why is physicist Dr. George Beer (photos at right) lying on a bed of sharp nails and allowing physicist Dr. Lyle Robertson to bludgeon a brick on his chest? To prove that pressure from an impulse force (hammer) can be lessened when dispersed over a specific area (a bed of nails), the organizer of this year's Science Olympics gamely made himself the object of his own experiment. The theory was proved correct by Beer and Robertson before more than one 100 Vancouver Island science students attending Science Olympics—held during Engineering Open House—on Oct. 20. For more photo coverage, see page 5.

Building the case for a new library building

"Urgent and substantial" need for expansion concludes report

BY ROBIE LISCOMB

An independent committee is soliciting submissions from faculty, staff, and students on the topic of library expansion to address the UVic libraries' lack of adequate space for study and for housing its collection.

The Library development committee, formed at the behest of the Library space subcommittee in consultation with the Senate Committee on the Libraries, is attempting to gauge the concern of the University community and build the case for a new or expanded library building. The committee plans to present the results of this effort to a meeting of deans in mid-November and to the Vice-President Academic and Provost by the end of term. Although the committee will welcome written submissions from anyone at any time, it would be most helpful if they were sent by Nov. 3 to committee chair Dr. Patrick Grant (English).

In 1994, a UVic-commissioned report by library building consultant Philip D. Leighton concluded that the need for library expansion is "urgent and substantial" and that difficulties in housing the collection and accommodating students are at "a virtually critical level." The

committee agrees that study space for students is inadequate and that shelving for the collection is already filled beyond normally accepted working capacity.

Shelves are already filled to capacity, even though the library is not acquiring as many books as it would like...

Currently, there are 791 seats in the McPherson Library and another 362 in the Curriculum Laboratory, Law Library, and Map Library, for a total of 1,153. Leighton suggested that, ideally, study seats should be provided for 25 per cent of the student population. Based on that formula, UVic has adequate study space for a student population of only 4,612. The UVic enrolment headcount stood at 16,285 on Sept. 15.

Shelves are already filled to capacity, even though the Library

is not acquiring as many books as it would like and collection growth is far below the Association of Research Libraries' average growth rate. Based on a modest recommended growth rate of 2.35 per cent (still considerably below average) Leighton suggested that the main library would have to double in size by the year 2014-15 to accommodate the collection. While it is uncertain how new technologies will affect the long-term need for library space, at this point the technologies themselves require considerable extra space, which the library is struggling to supply.

The Library development committee has provided all academic departments with a copy of the Leighton report along with a brief memo outlining the committee's own recommendations, based on its assessment of the report. The committee has requested that chairs and directors ask their department members to read the memo and the report with a view to submitting written responses. The University of Victoria Students' Society and Graduate Students Society have also been asked to make submissions. Anyone who would like to receive a copy of the Leighton Report and the committee memo may do so by contacting the University Librarian (local 8211, email mswanson@sol.uvic.ca).

Committee members are also available for consultation. They are: Dr. Patrick Grant (English) 7271, Dr. Marilyn Callahan (Social Work) 8037, Dr. Brian Dippie (History) 7385, Dr. Carol Gibson-Wood (History in Art) 7940, Dr. Eric Manning (Electrical & Computer Engineering) 6044, Dr. Alexander Matheson (Biochemistry & Microbiology) 7076, Prof. John McLaren (Law) 8162, Dr. John Oleson (Classics) 8519, Joan Sandilands (Libraries) 8268, Dr. Terry Sherwood (English) 6205, University Librarian Marnie Swanson 8211, Dr. Nancy Turner (Environmental Studies) 6124, and Ainslie Wilson (Libraries) 8260.

McPherson Library REMEMBRANCE DAY HOURS

Monday, November 13, 1995

Loan Desk & Reserve

12 noon - 8 p.m.

Reference Desk

1 p.m. - 5 p.m.

Microforms

1 p.m. - 5 p.m.

Curriculum Laboratory

CLOSED

Interlibrary Loan

CLOSED

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Special Collections

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The Library will be open regular hours on Saturday and Sunday, November 11 and 12 and Tuesday and Wednesday, November 14 and 15 (Reading Break)

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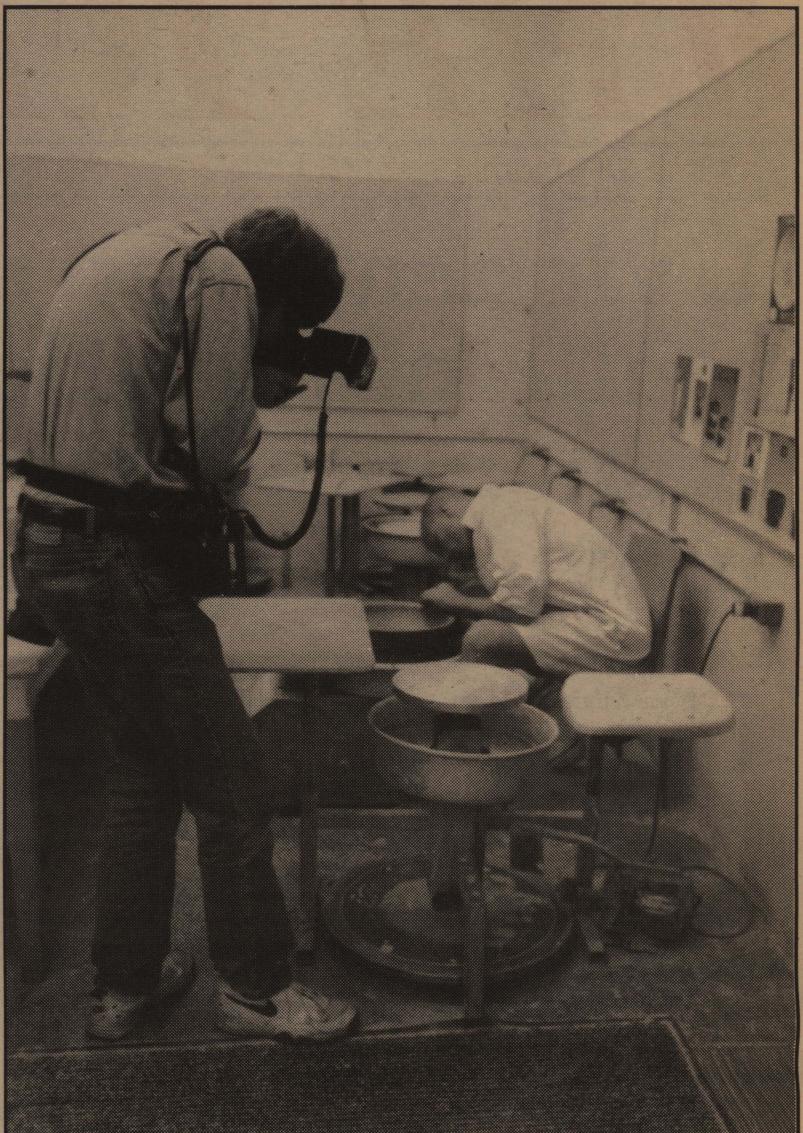
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Letters, 1895, II. 308



DONNA DANYLCHUK PHOTO

Scene on Campus

During a recent visit to UVic's campus, Vancouver freelance photographer Bayne Stanley took photographs in the pottery studios in the basement of the MacLaurin Building. Stanley was on assignment for Maclean's Magazine.

Fund created for innovative teaching

The Vice President Academic and Provost is pleased to announce the creation of a new fund for innovative teaching projects. Initially the total monies available will be \$25,000 and details of those who are eligible to apply and the process for submitting and selecting proposals are available. Enquiries about these grants may be obtained from the Director of the Learning and Teaching Centre at 8572.

PEA Chapter elects first executive

Results of the first election of officers for the new UVic chapter of the Professional Employees Association (PEA) were announced Oct. 19. Elected president is Dr. Larry Devlin, Director of Research and Development, Division of Continuing Studies. Members elected to the executive are: Dick Chappell, Manager of Support Services, Facilities Management; Tom Gore, Senior Scientific Assistant, Biological Imaging Lab; Lance

Grant, Local Area Network Administrator, Computer User Services; Brishkai Lund, Director of Arts and Sciences Programs, Continuing Studies; Ann Nightingale, Director, Graduate Admissions; and Mary Sanseverino, Programmer, Computer Assisted Language Learning Facility. The PEA represents the administrative and academic professional staff at UVic.

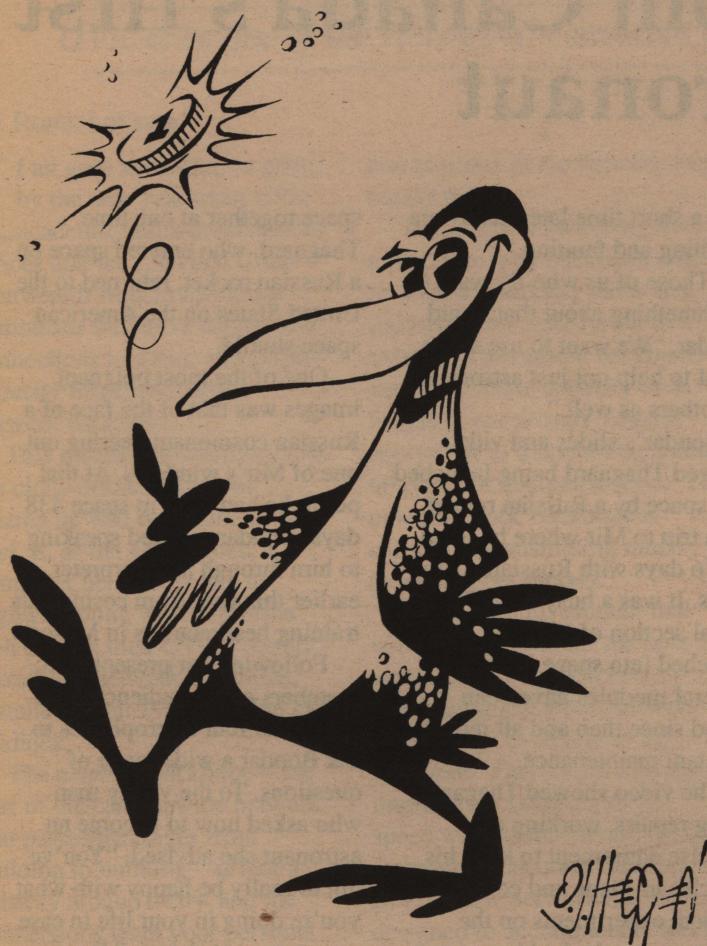
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United Way campaign almost half-way there



UVic's United Way Loon mascot is back to remind you to collect your loonies for the Loonie Lay-In around the University fountain at high noon on Nov. 1. The official mascot of the campus campaign was created by Ole Heggen of the geography department.

U Vic's United Way campus campaign is almost halfway towards its goal of \$100,000. To date \$47,631 has been collected. Several names were drawn Oct. 20 from those early donors for the first of the campaign's early bird draws. The winners are: Jennifer Margison, Student Employment Centre—two tickets to *Salome*, from the Phoenix Theatre; Ann Wilson, computing services—a summer camp T-shirt from athletics and recreational services; Charles Card, physics and astronomy—a box of excellent scratch pads

from printing and duplicating; Dr. Bill Pfaffenberger, mathematics and statistics—a \$50 gift certificate from the Division of Continuing Studies; Dr. Francis Nano, biochemistry and microbiology—a \$20 vendcard from the UVic Libraries; Dr. Cary Goulson (off campus)—a set of five transcripts from records services; Dr. Joel Newman, counselling services—20 feet of lamination from the curriculum laboratory; Dr. Max Uhlemann, psychological foundations, and Susan Fiddler, Co-op—B.C. Tel phone cards from the Alumni

Office; Dr. Eric Sager, history—a fitness assessment from the School of Physical Education; and Gertrude O'Neal, library technical services—a Pepsi sports jacket.

Everyone who donates to the United Way campaign is eligible for the next early bird draw on Nov. 17 and for the grand draw on Dec. 1. Among the prizes offered in the next early bird draw are five B.C. Tel "Hello" cards and lunch for two at Dunsmuir Lodge. Make a donation and help UVic reach its goal.

Dress down on Fridays for the UW

The casual look is catching on throughout campus—at least on Fridays—and it's all for a good cause. More and more departments and offices are dressing down on Fridays and contributing a loonie to the UVic United Way campaign for the privilege. All those loonies will come in handy Nov. 1 when the campus celebrates United Way day with a special break on brown bag lunches and the annual Loonie Lay-In around the University fountain.

Departments are asked to bring the loonies they've collected during dress down days to the fountain at high noon where student groups will compete against each other to lay the most loonies around the fountain for the United Way. Give your coins to the student group of your choice and give them a better chance at winning Lord Loonie's trophy. This year, UVic students are facing a challenge from Camosun College students who want to take the trophy back to

their Lansdowne campus, so your loonies will be in high demand!

While watching the action at the fountain, munch on a brown bag lunch available at all University food services outlets on Nov. 1 for \$5. All proceeds from the sale of these lunches go to the United Way campus campaign. Each brown bag contains a sandwich (vegetarian are available), fruit and a beverage and some brown bags contain a prize as well!

What exactly is the Canadian family?

Canadian Families Project receives \$650,000 from SSHRC

BY ROBIE LISCOMB

The Canadian Families Project—a five-year, UVic-based, multi-university research initiative to study the Canadian family of the past and present from a variety of perspectives—has been approved for \$650,000 in funding from the Social Sciences and Humanities Research Council of Canada (SSHRC) through its Major Collaborative Research Initiatives program. Additional funding for the project comes from private sources and from the universities involved, which have pledged a total of \$176,000.

Decisions regarding public policy, political preferences, economic expectations, and personal relationships are all made on the basis of one's ideas of the family, family roles, and family values. More than any other institution, the family connects the personal and the political spheres. We are told that today the family is in crisis, but all too often current impressions lack a solid foundation in evidence and historical perspective with which to evaluate such claims. The Canadian Families Project will provide such a basis for judgement.

The project will produce both scholarly and popular books about the family, create a CD-ROM multi-media teaching

package on Canadian families, share its work with a broad range of public and private groups and organizations in both Canada and the U.S., and provide extensive training opportunities for more than 30 undergraduate and graduate students.

Project director is Dr. Eric Sager (History). Other UVic participants are Drs. Peter Baskerville, Lynne Marks, and Ian MacPherson (History), Annalee Gölz (History & Women's Studies), and Larry McCann (Geography). Five other researchers are involved from the universities of Concordia, Ottawa, Sherbrooke, and York, resulting in a project drawing from the disciplines of history, sociology, geography, and demography. Much of the project's work on the geography of Canadian families will be done through the Cartographic Resource Centre in UVic's Department of Geography.

"We do not begin with a single definition of 'family,'" says Sager. "Instead, we want to see family as a changing set of associations and relationships, varying with time, gender, class, region, and other historical conditions." The project will create a large database for the use of scholars, students, and public policy analysts across

Canada. It will begin with a national sample of individuals and families from the 1901 census.

"The year 1901 is our benchmark for comparisons with later periods," says Sager. "From the portrait of Canadian families in 1901, we can answer a wide range of questions: Was there ever a 'traditional family'? Were family breakups and single parenting more or less common a century ago? When and why did families begin to get smaller? What were living standards like for the Canadian family before the welfare state?" The project will also examine how we have acquired our various ideals and definitions of the family and how accurate these are.

"I am delighted that our colleagues in the Humanities Division have been rewarded with very substantial support for this project," says Dr. Alex McAuley, Associate Vice-President, Research. "This grant represents one of the largest to the humanities at UVic for some years. The project is one of only four funded through this SSHRC program. SSHRC's support is a fitting recognition of the excellence of research being carried out in this area in the Humanities Division."

Field hockey championships

The Vikes women's field hockey team will defend their Canadian Interuniversity Athletic Union (CIAU) national title Nov. 3 to 5 in Toronto. The Vikes have been CIAU champions six times in the last nine years, always with coach Lynne Beecroft at the helm.

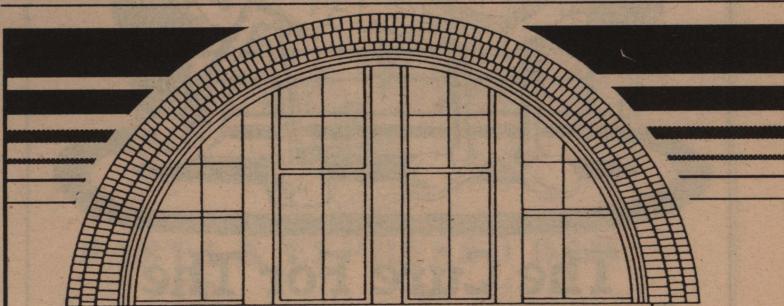
The team heads into the championship ranked second in the Canada West conference and third nationally.

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Campus Security quiz

At Fall Fest in University Centre earlier this month, Campus Security Services challenged people to test their knowledge of campus security by taking the following quiz. Twelve people answered all the questions correctly and, from the 12, a winner, Linda Douma, was picked at random. The prize for Douma, who received her BA in 1967 in French and Spanish and currently is working towards a Diploma in Applied Linguistics in ESL, was a Bad Pack Attack bicycle lock. Douma's knowledge and interest in campus security matters arises from taking classes on campus in the evenings. She and her fellow students accompany each other to their cars after class.

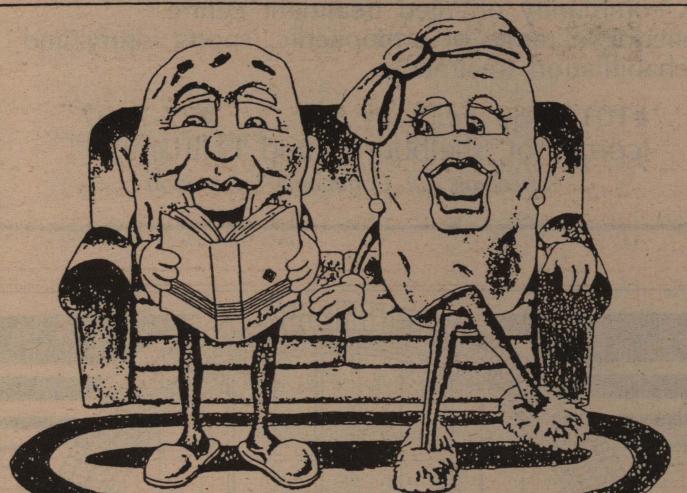
Campus Security Services Quiz

1. What is the emergency phone number for Campus Security?
2. What hours is "Safewalk" available?
3. Who runs "Lost & Found" for items turned in at the McPherson Library, University Centre, and the SUB?
4. What do you do if you lose your wallet at UVic?
5. Where and during what hours can you buy UVic parking permit?
6. Name the self-defense course taught by Campus Security.
7. What is the license plate number of #27, Campus Security's emergency response vehicle?

ANSWERS:

1. 721-7599.
2. 24 hours a day.
3. Campus Security Services.
4. Call Campus Security; call police for that jurisdiction; cancel credit cards; retrace your steps.
5. Yellow ticket dispensers 24 hours a day; Campus security Services office 8 a.m.-4:30 p.m. Monday-Friday.
6. RAD (Rape Aggression Defense Systems).
7. 8811MT.

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Space flight: A first hand account from Canada's first female astronaut

BY PATTY PITTS

It's been three years since Dr. Roberta Bondar flew into history as Canada's first female astronaut, but the aura from her space odyssey has not dimmed. On Oct. 19, Bondar spoke to a rapt audience at the University Centre Auditorium about the advances in space travel since her flight aboard the space shuttle Discovery. She focused on the increasing cooperation between former archrivals Russia and the United States who now swap rides into space on each other's spacecraft and have shared cramped living quarters at the Russian Space Station Mir.

Bondar's crisp, informal and wry delivery through an opening presentation of slides followed by a 30-minute videotape kept an audience ranging from school children to seniors captivated. The focus of her presentation was American Astronaut Norm Thagard who flew with Bondar on Discovery and was one of the Americans involved in a historic rendezvous at Mir earlier this year with the space shuttle Atlantis.

Thagard, like Bondar, is a medical doctor and both are intensely interested in the effects that space travel has on the human body. The reality behind the image of jaunty astronauts striding confidently down the stairway from the space shuttle is

that, a short time later, many are vomiting and fainting.

"Those of us who fly want to do something about that," said Bondar. "We want to use space flight to help not just astronauts, but others as well."

Bondar's slides and video showed Thagard being launched into space by a Russian rocket for a trip to Mir where he lived for 16 days with Russian cosmonauts. It was a busy stay. The initial section of Mir was launched into space in 1987. Several modules have been added since then and all require constant maintenance.

The video showed Thagard doing repairs, working on exercise equipment to keep his muscles in shape and conducting medical experiments on the cosmonauts who had been in space over three months. In one sequence, they eagerly watched an unmanned small supply ship dock at Mir, bringing fuel and water along with candies, letters and photos from home.

Atlantis' docking with Mir was shown from the point of view of both the American and Russian video cameras. For five days, the crews from both space missions mingled and conducted medical experiments on themselves and each other. The 10-person crew was the largest number of human beings ever in

space together at one time. Thagard, who entered space on a Russian rocket, returned to the United States on the American space shuttle.

One of the most poignant images was that of the face of a Russian cosmonaut peering out one of Mir's windows. At that point, he had been in space 438 days. Bondar recalled speaking to him through an interpreter earlier this year from cosmonaut training headquarters in Moscow.

Following her presentation, members of the audience lined up behind four microphones to ask Bondar a wide range of questions. To the young man who asked how to become an astronaut she advised, "You've got to really be happy with what you're doing in your life in case you never get chosen." Even after being selected for Canada's astronaut program, some wait up to 13 years for the opportunity to go into space.

Bondar gave an emphatic "yes" to a young girl who asked if it was exciting to see Earth from space.

"I've seen something bigger than anyone else here. It's really big with vibrant colours. Plus, when you do it [fly over Canada] hearing your national anthem playing, you wish everyone could do that on Oct. 30 [referendum day in Quebec]."

Speaking out

Speakers' Bureau members have spoken on the following topics this Fall

SEPTEMBER 1 to 30: Beverley Glover, *Park Hopping—A Naturalist's Journey from Ontario to Vancouver Island*, Central Saanich Seniors Association; Dr. John Esling, *Teaching English as a Second Language*, English Speaking Union.

OCTOBER 1 to 31: Dr. Paul Chamberlain, *Forts, Fortresses & Castles in England & Canada*, Parkwood Retirement Residence; Dr. Bob Bell, *Lifestyles & Aging*, The Kensington Retirement Residence; Prof. Theodore McDorman, *Ocean Law & Policy*, Kiwanis Club of Sidney & Peninsula; Dr. Chris Thomas, *Victoria Architectural History*, Parkwood Retirement Residence;

Prof. Sanghoon Nam, *Cross-Cultural Difference in Management Practice*, First Nations Women in Professional Occupations; Dr. Francis Ricks, *Ethics: Developing Moral Thinking in Professionals*, First Nations Women in Professional Occupations; Dr. Thomas Bredohl, *Holocaust, Sincerely Happy* Association of Retired Persons; Dr. Ian MacPherson, *Settling the West*, Victoria Golden Rods & Reels Society; Dr. Margie Mayfield, *National Parks in Argentina and Chile*, The Kensington Retirement Residence; Dr. David Docherty, *Fitness & Lifestyles*, North Saanich Middle School; Dr. Rick Bell, *Motor Development in*

Children, Oak Bay Parent Resource Group; Dr. Michael Booth, *History of Theatre*, Victoria Schizophrenic Support Society; Dr. Cary Goulson, *As Others See Us (Opinions of School Children in the British Isles about Canada)*, Belmont Sr. Secondary; Prof. Hamar Foster, *Aboriginal Land Claims*, Capital City Executive Association; Dr. Sandra Gibbons, *Fair Play in Elementary School Sport Programs*, Strawberry Vale Parent Advisory Council; Dr. Margie Mayfield, *Toy Libraries in Canada, England, Australia, and Sweden*, Fernwood Seniors Autumn Glow Society; Lara Lauzon, *Fitness & Self-Esteem*, North Saanich Middle School; Dr. Robert Dalton, *Young at Art: Elderly Artists and their Work*, Berwick House; Dr. Chris Thomas, *Canadian Art*, Beacon Hill Villa; Joan Wharf Higgins, *Active Living*, Esquimalt Neighbourhood House; Dr. Bob Bell, *Stress & Aging*, Victoria Women in Travel; Dr. Robert Bell, *Lifestyles and Aging*, Cordova Bay Kiwanis; Prof. Donald Casswell, *Immigration and Refugee Law*, Colquitz Junior Secondary School.

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UVic gets (re)wired

UVic to be one of the best-wired Canadian university campuses.

By ROBIE LISCOMB

If all goes according to plan, by the new year most UVic academic and administrative offices and the Lam and Commonwealth student residence complexes will have high-speed connections to a fast, new, high-capacity fiberoptic campus network backbone.

This means that worries about the old overloaded system seizing up will be a thing of the past. If, as the cliché goes, a computer network is like a highway along which information travels, then UVic's current broadband network backbone, installed about 1985, is close to gridlock.

The network backbone—the part of the campuswide network that passes messages from building to building—is like a beltway around a city, and the connections from your personal computer or workstation to the backbone are like the roads that run to and from the beltway. And, like a beltway, the campus backbone is made up, for the most part, of loops. As a result, most UVic buildings have two electronic paths leading to the rest of the campus. This redundancy results in more flexibility of network design and gives an alternate route that can be used if

one segment of the network ever breaks down.

The effect of switching over to the fiberoptic backbone will be similar to adding lanes and increasing the speed limit of a beltway. The current backbone has an effective capacity of 5 megabits per second (roughly equivalent to transmitting about 40 pages of text per second). The new fiberoptic backbone is capable of transmitting much more data per second.

"This is an investment that will serve us well for the next 20 years," says Paul Molyski of Computing and Systems Services, who is in charge of the backbone. That's a particularly impressive claim, given the speed with which computer technology becomes obsolete. But the new network has been designed to accommodate lots of growth in traffic. When first in use, it will carry multiple 10-megabit-per-second channels of data (160 pages of text or more per second). Future plans call for upgrading the backbone to asynchronous transfer mode (ATM), a new technology specifically designed for carrying multimedia traffic. This will increase backbone capacity to 155 megabits per second (about

1,240 pages of text per second).

The task of getting UVic offices connected to the backbone is nearing completion. When the work is done, all offices identified by departments as needing a computer connection will have one. This has involved creating or altering scores of wiring closets in campus buildings, installing fiberoptic cables between wiring closets within buildings, installing dozens of ethernet hubs to handle data traffic between local area networks and the backbone, and upgrading local area network wiring and design in some areas. According to Facilities Management estimates, the project has involved laying at least 500 kilometres of data wiring in campus buildings in addition to the fiberoptic cabling. Any further wiring requirements after the end of the project will be handled through the normal renovations procedures.

The result: gone are the days when a department would have to pay hundreds of dollars to have a data outlet installed in an office. Soon, all anyone will need to start using the campuswide network is a personal computer with the appropriate communications card.

Combatting the high price of textbooks

The following article has been submitted to the Ring by Trudy Martin, manager of the UVic Bookstore

Students have told us often and in many ways during the past few years that textbook prices are too high. Our response is, regrettably, limited mainly to showing why prices are high, since it is not possible for us to reduce textbook prices and to reach our break-even mandate as well.

The store receives an average discount of 23 per cent off textbook retail prices. This discount is necessary to meet our expenses including wages (which benefit our student help) and high freight costs (as we are far from the sources of supply). We are also paying the University a one-per-cent administration fee. Even so, our margin is one per cent lower than the current average margin of Canadian university bookstores.

We can, however, help in a number of ways. We try to bring the cost of texts down by offering as many used texts as we can at three-quarter the new retail price. Also, of course, when students sell texts back to us, half of their initial outlay is returned.

We are also helping to bring custom-printed material to

students, either especially prepared for courses by the publishers or assembled by us on faculty request and printed on campus as "course packs." Author's royalties are paid on course pack material. The package tends to be less expensive than a textbook as there is little obsolescence (we print short of anticipated demand and then take orders on a two-day turn-around). Also, there are, of course, no shipping or returns costs and only the passages actually required are included.

Within the past year there have been particularly high textbook price increases due to the high U.S. exchange rate (over 75 per cent of textbooks used at UVic originate in the U.S.) and large increases in the cost of paper. The cumulative increase in prices has been approximately 10 per cent. We hope that prices

will stabilize from now on.

It is our mandate to bring learning material to students as inexpensively as possible while meeting expenses and not requiring any subsidies (which would have to come from student tuition). We take this mandate very seriously and we will continue to try to bring costs down.

The elements of pricing for every textbook dollar (source: Canadian Book Publishers' Council):

Book manufacturing	36 cents
Bookstore personnel	14 cents
Publisher's overhead	13 cents
Marketing	12 cents
Bookstore rent & overhead	10 cents
Editorial	5 cents
Author's royalty	4 cents
Publisher's profit	4 cents
Corporate taxes	2 cents
TOTAL	One dollar

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477-1133

Engineering Open House

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PATTY PITTS PHOTOS

Small fry science was a hit at UVic's Engineering Open House, Oct. 19 to 21, when the Faculty of Engineering opened its new Engineering Lab Wing to the public. Kids at the Science Venture display (top) were pasta and mini-marshmallows to build fanciful structures while extroverted robots cruising the halls in the lab wing made new friends of all ages.

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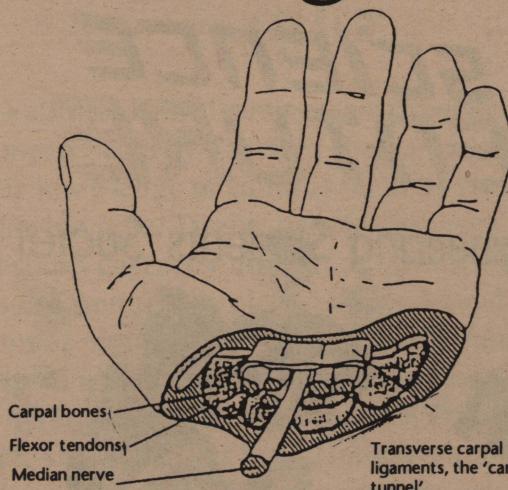
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Tackling Carpal Tunnel Syndrome



BY TERESA MOORE

Ever wake up with your fingers numb or with a tightness or ache in your hands? If so, beware. You may have the first signs of Carpal Tunnel Syndrome (CTS). The syndrome was discussed at a workshop Oct. 6 with physiotherapist Steve Parker (University Health Services) and Renato Danesin (Occupational Health & Safety).

CTS is a strain injury which occurs when the wrist is not kept straight, and circulation of blood coming back from the ends of the fingers is cut off. This creates an inflammation of the tunnel passages which house the tendons, causing swelling and discomfort. It is painful, can be disabling and, says Parker is "just plain nasty to get rid of."

There are no Canadian statistics on the incidence of the CTS, but the National Institute of Occupational Health and Safety in the U.S. shows a 700 percent increase in the syndrome from 1988 to 1993. Parker says the trend in Canada is likely to be very similar.

"As more and more people use computers and mouses, we're seeing more cases of CTS

Computers are not the only villains, however. Injury can be caused by repeating the same movements many thousands of times: any repetitive rapid movement, such as haircutting or pruning, can cause CTS as can large loads over long periods of time, like working a jackhammer or chainsaw, or remaining in a static posture, like leaning on the wrist to treepant.

While Parker stresses the need for education to avoid the syndrome, he warns people to be alert to the early detection signs.

"By the time you feel it, you've had it for a long time, so pay attention to any tingling in your fingers or tight sensations or aches. You may notice that you can't grip very well."

As the syndrome progresses, the pain gets worse and the skin may become a mottled blue colour because of the lack of circulation.

The best treatment for Carpal Tunnel Syndrome is rest. Stop doing whatever activity caused the problem in the first place, and, adds Parker, stop any activity that might exacerbate the injury.

"If your problem is caused by typing all week, it won't help if you don't type all week, but go

and as public awareness of the syndrome and how it can be treated is increasing, more people are seeking help."

home and prune or rake the garden all weekend."

Parker urges people with CTS to remain physically active as this speeds up the healing time. Although he treats patients with resting splints, he warns that they mask the real problem by allowing the person to return to work or continue to do the activity that is at the root of the problem.

"It's only a temporary fix. Once the splint's off, it's easy go back to doing what you've always done."

Parker also uses ice and, sometimes, anti-inflammatory drugs to bring down the swelling. In severe cases, surgery is required. Generally, treatment takes from six to eight weeks.

Both Parker and Danesin are convinced that prevention is the best cure for CTS.

"The real message about CTS is that you don't want to get it at all," says Parker.

At the one-hour workshop, Danesin demonstrated some ergonomically sound ways to avoid CTS. A padded support, which sits between the typist and the keyboard, allows the wrist to rest in a straight position. New keyboards have been designed with built-in support for the wrist and chairs, and desks are now being designed to provide better support for the back and arms.

Another workshop on CTS will be held on January 23 from 12:30 to 1:30. Anyone interested in attending should contact the Learning and Teaching Centre at 721-8571.

Tips for Prevention of Carpal Tunnel Syndrome

1. Be aware of the problem. The best treatment is prevention.
2. Check out your work station. Pay attention to how you rest your hands and wrist. Bad chairs and furnishings almost guarantee uncomfortable, awkward positioning of backs, arms, wrists and hands.
3. Take breaks from doing repetitive movements. If you sit and type all day, take 15 minutes each hour to do another task. Break up your day with different tasks rather than one job for an extended period.
4. Catch it early. Pay attention to any uncharacteristic discomfort in the hand, any tingling sensation or numbness.
5. Seek help if you think you have a problem.



Book for a buck

United Way

Is that Tower of Babel of books teetering beside your bed getting perilously tall? Are you finally ready to part company with those old BeeGees records? Then gather them up and take them to the McPherson Library reference desk for their "Book For A Buck/Tune For A Loon" sale. All proceeds from the Nov. 23 sale go towards the United Way campus campaign.

Last year's successful event has been expanded to include both fiction and non-fiction paperbacks and LPs, tapes and CDs. The hours have also been expanded. This year's sale runs from 9 a.m. to 9 p.m. in the McPherson Library lobby. Collect books and tunes in your department or bring them to the reference desk until Nov. 22. Books and tunes unsold at the end of the sale will be donated to St. Vincent de Paul, a United Way agency.

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Deputy Minister of Foreign Affairs speaks on Canada and the Asia-Pacific

BY ROBIE LISCOMB

Sixty people gathered in Begbie 158 Oct. 10 to hear Gordon Smith, Deputy Minister of Foreign Affairs and International Trade, discuss "Canada, Asia-Pacific and the International System." Smith's appearance was organized by UVic's Centre for Asia-Pacific Initiatives.

Smith addressed the challenges and opportunities in the region as they relate to Canada's three major foreign policy themes: the promotion of jobs and greater prosperity for Canadians; the protection of Canadian security; and the projection of Canadian values and culture abroad.

According to Smith, Canadian business cannot achieve adequate penetration of Asia-Pacific markets without adopting new

approaches because, in contrast to Canadian practice, business in the region is less oriented towards rule-based systems and more towards personal relationships, and there is much greater acceptance of close working relationships between business and government.

Smith emphasized that collective and co-operative security approaches—favoured by Canada—are not stressed by nations in the region. Canada cannot expect to play a large security role in the Asia-Pacific, he said, but has contributions to make in such areas as peacekeeping and preventative diplomacy. He said that we have to look at security in the region in a different way, and that no quick

institutional solutions to the region's security issues could be applied.

With regard to promoting Canadian values, Smith said that Canada should not attempt to impose its values upon other countries, but that we should put very high importance on human rights. He pointed to major differences in approach on such issues as environmental protection and development aid.

He concluded by noting that Canada approaches the Asia-Pacific region with a great deal of hope, but recognizes that enormous challenges are involved in our relationships with countries in the region, and we have much to learn.

CALENDAR

ALL EVENTS ARE FREE UNLESS OTHERWISE INDICATED. SUBMISSION DEADLINE FOR THE NEXT ISSUE IS NOVEMBER 3.

ATHLETICS EXHIBITIONS FILMS LECTURES MUSIC RECREATION THEATRE WORKSHOPS & CONFERENCES OTHER

Continuing

E 9:00 a.m. *Against Hitler: Resistance in Nazi Germany*. Exhibition until November 3. Weekdays 9:00 a.m. - 9:00 p.m. Weekends 10:00 to 6:00 p.m. George & Ida Halpern Centre for Graduate Students. Info 721-7405 or 721-8600.

O 9:00 a.m. *A Book for a Buck*. A Loon for a Tune. Donations needed for the Annual UVic United Way Fundraiser. Until November 23. McPherson Library Reference Desk. Info 721-8274.

E Faculty Exhibition, Department of Fine Arts, Okanagan University College. To November 5. Maltwood Art Museum and Gallery. Info 721-8298.

Friday, October 27

O 9:00 a.m. Red Cross Blood Donor Clinic. Until 1:00 p.m. U. Ctr. Auditorium. Info 382-2213.

L 9:30 a.m. *Love & Hate in the Hispanic and Italian World*. U. Ctr. Senate Chambers A180. Info 721-7413.

M 12:30 p.m. *Fridaymusic*. School of Music guitar and harp students. Phillip T. Young Recital Hall. Info 721-7903.

L 1:30 p.m. *Against Hitler: Resistance in Nazi Germany*. Until 5:30 p.m. Arbutus/Queenswood Room of the Cadboro Commons Building. Info 721-7405 or 721-8600.

F 2:30 & 7:15 & 9:15 p.m. *Double Happiness* (Canada, 1994) Mina Shum. \$3 matinee. \$4-\$6 evening. SUB Theatre. Info 721-8365.

L 3:00 p.m. *Interdisciplinary Research on the Environment*. Professor Michael Redclift, U. of London. Lansdowne Lecture. Cornett B343. Info 721-7327.

M 8:00 p.m. University of Victoria Orchestra. Admission by donation. U. Ctr. Auditorium. Info 721-7903.

T 8:00 p.m. *Jennie's Story*. Guest Director. \$13-\$15 at Phoenix Theatre box office. Info 721-8000.

F 11:15 p.m. *Psycho* (USA, 1960) Alfred Hitchcock. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Saturday, October 28

F 2:30 & 7:15 & 9:15 p.m. *Double Happiness* (Canada, 1994) Mina Shum. \$3 matinee. \$4-\$6 evening. SUB Theatre. Info 721-8365.

M 8:00 p.m. *Vienna, City of My Dreams*. Palm Court Orchestra. \$7.50-\$16.50 at U. Ctr. box office and McPherson box office. U. Ctr. Auditorium. Info 721-8480.

T 8:00 p.m. *Jennie's Story*. Guest Director. \$13-\$15 at Phoenix Theatre box office. Info 721-8000.

F 11:15 p.m. *Psycho* (USA, 1960) Alfred Hitchcock. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Sunday, October 29

F 7:15 p.m. *Double Happiness* (Canada, 1994) Mina Shum. \$4-\$6 at door. SUB Theatre. Info 721-8365.

F 7:30 p.m. *Endless Winter*. Warren Miller's film. \$11-\$12 at U. Ctr. Auditorium box office & McPherson box office. U. Ctr. Auditorium. Info 721-8480.

F 9:15 p.m. *Double Happiness* (Canada, 1994) Mina Shum. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Monday, October 30

W 10:00 a.m. *Interview Tips* \$5. Pre-register at the Student Employment Centre. Campus Services Building. Info 721-8421.

W 2:30 p.m. *Job Search Strategies*. \$5. Pre-register at the Student Employment Centre. Campus Services Building. Info 721-8421.

F 7:15 & 9:15 p.m. *Swimming with Sharks* (USA, 1994) George Huang. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Tuesday, October 31

L 1:30 p.m. *Is there anything New Under the Sun?* Chaplins' Circle Interfaith Explorations. Clearihue D125. Info 721-8338.

F 7:15 & 9:15 p.m. *Cronos* (Mexico 1993) Guillermo Del Toro. Spanish with English subtitles. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Wednesday, November 1

W 10:30 a.m. *Accessing the Hidden Job Market*. \$5. Pre-register at the Student Employment Centre. Campus Services Building. Info 721-8421.

O 12:30 p.m. *Someday, The Bootlegger Blues, Toronto at Dreamer's Rock, and Education is Our Right*. Drew Hayden Taylor, one of Canada's leading Native playwrights will read from and discuss his works. MacLaurin D288. Info 721-7236.

W 1:30 p.m. *Resume Critique*. Student Employment Centre. Campus Services Building. Info 721-8421.

L 2:30 p.m. *The Development of Early Anabaptism in the Context of Communal Reformation (Gemeindereformation)*. Dr. Werner O. Packull, Conrad Grebel College at the U. of Waterloo, Ontario. MacLaurin D111. Info 721-6325.

L 4:30 p.m. *Teaching Beginners*. Annley Kelly, Camosun College. Clearihue C112. Info 721-7420.

F 7:00 & 9:15 p.m. *Red Firecracker, Green Firecracker* (China/Hong Kong, 1993) He Ping. Mandarin with English subtitles. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Thursday, November 2

L 11:30 a.m. *Radical, Radical Pairs and Biradicals in Synthetic and Mechanistic Organic Photochemistry*. Dr. Alan Weedon, U. of Western Ontario. Elliott 060. Info 721-7156.

L 12:15 p.m. *The Role and Work of the Law Society Ombudsman*. Gail Forsythe, Law Society of B.C. Begbie 158. Info 721-8150.

F 7:00 & 9:15 p.m. *Red Firecracker, Green Firecracker* (China/Hong Kong, 1993) He Ping. Mandarin with English subtitles. \$4-\$6 at door. SUB Theatre. Info 721-8365.

L 7:30 p.m. *Different Voices: Women Writing the Holocaust*. Risa Sodi, Yale University, and Dr. Elena Rossi, Hispanic & Italian Studies, UVic, Chair. Begbie 159. Info 721-8827.

Friday, November 3

M 12:30 p.m. *Fridaymusic*. School of Music brass students. Phillip T. Young Recital Hall. Info 721-7903.

F 2:30 & 6:30 & 9:15 p.m. *Apollo 13* (USA, 1995) Ron Howard. \$3 matinee. \$4-\$6 evening. SUB Theatre. Info 721-8365.

M 7:30 p.m. *Sing for a Lifetime*. Victoria Village Squires & School Choirs. \$3-\$6 at U. Ctr. box office & McPherson box office. U. Ctr. Auditorium. Info 721-8480.

M 8:00 p.m. *UVic Sonic Lab*. Admission by donation. Phillip T. Young Recital Hall. Info 721-7903.

F 12:00 a.m. *The Thing* (USA, 1982) John Carpenter. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Saturday, November 4

F 2:30 & 6:30 & 9:15 p.m. *Apollo 13* (USA, 1995) Ron Howard. \$3 matinee. \$4-\$6 evening. SUB Theatre. Info 721-8365.

L 8:00 p.m. *Music-Work-Experiment-Politics*. Christian Wolf, Professor of Music, Dartmouth College. Lansdowne Lecture. Phillip T. Young Recital Hall. Info 721-7902.

T 8:00 p.m. *Operation Eyesight Benefit Concert*. Civic Orchestra. \$12.50 at U. Ctr. box office & McPherson box office. U. Ctr. Auditorium. Info 721-8480.

F 12:00 a.m. *The Thing* (USA, 1982) John Carpenter. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Sunday, November 5

M 2:30 p.m. *Faculty Recital*. Erich Schwandt, harpsichord. \$6-\$10 at School of Music office. Phillip T. Young Recital Hall. Info 721-7903.

M 7:00 p.m. *Bands in the Round*. Presented by Parents for Music. \$3 at U. Ctr. box office & McPherson box office. U. Ctr. Auditorium. Info 721-8480.

F 7:15 p.m. *La Dolce Vita* (Italy/France, 1961) Federico Fellini. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Monday, November 6

F 7:15 p.m. *La Dolce Vita* (Italy/France, 1961) Federico Fellini. \$4-\$6 at door. SUB Theatre. Info 721-8365.

M 8:00 p.m. *Faculty Recital*. Arthur Rowe, piano. \$6-\$10 at School of Music office. Phillip T. Young Recital Hall. Info 721-7903.

Tuesday, November 7

Brunnee, UBC. Law Faculty Workroom. Info 721-8150.

F 7:15 & 9:15 p.m. *Window to Paris* (Russia/France, 1994) Yuri Mamin. \$4-\$6 at door. SUB Theatre. Info 721-8365.

Friday, November 10

L 12:30 p.m. *To Be Announced*. Chris Tennant, Harvard U. Law Faculty Workroom. Info 721-8150.

M 12:30 p.m. *Fridaymusic*. School of Music students in a program for various instruments. Phillip T. Young Recital Hall. Info 721-7903.

F 2:30 & 7:10 & 9:15 p.m. *Clueless* (USA, 1995) Amy Heckerling. \$3 matinee. \$4-\$6 evening. SUB Theatre. Info 721-8365.

Saturday, November 11

F 2:30 & 7:10 & 9:15 p.m. *Clueless* (USA, 1995) Amy Heckerling. \$3 matinee. \$4-\$6 evening. SUB Theatre. Info 721-8365.

M 8:00 p.m. *Gr. Victoria Youth Orchestra*. \$6-\$10 at U. Ctr. box office & McPherson box office. U. Ctr. Auditorium. Info 721-8480.

F 11:20 p.m. *Saturday Night Fever* (USA, 1977) John Badham. \$4-\$6 at door. SUB Theatre. Info 721-8365.

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Each year more than 300,000 people come to campus to attend plays, concerts, films, lectures, exhibits, conferences and athletic events. Now, they can access information about those events 24 hours a day. 721-UVIC is the University's new campus events line. Anyone with a touch-tone phone can call up the number during or after office hours and get the latest update on the myriad of events happening on campus.

The welcoming message and directions to four separate information categories—music, theatre and art; public lectures and films; athletics and recreation; and special events and conferences—are administrated by Public Relations and Information Services on a system set up by Sylvia Shepherd, UVic voice services co-ordinator. Callers selecting the first

category, for example, will have a choice of information from the University Centre, School of Music, Phoenix Theatre or Maltwood Art Gallery and Museum. Information will be updated on a regular basis by the partners in 721-UVIC. Those participating are: UVic conference management; Food, Housing and Conference Services; Campus Security Services; Athletics and Recreational Services; Cinecenta; the Maltwood Art Museum and Gallery; the Phoenix Theatre; the School of Music; and University Centre.

Previously, callers to campus were greeted with a variety of taped messages, voicemail systems, busy signals or unanswered phones. 721-UVIC consolidates information on campus events on one system

music • films • sports • theatre •
• conferences • art • lectures •

721 - UVIC

24-HOUR CAMPUS
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LETTER

The Editor,

So the skylarks were driven from the Skylark Field to make way for a Business Building! Skylarks are beautiful and, in Canada, very rare. Their song is the stuff of poetry; it raises our spirits and speaks to our hearts. Business has none of these qualities. The replacement of skylarks by business is sadly symbolic of all that is going wrong with this university.

J. Douglas Porteous,
Geography

According to grounds manager Tony James, campus birdwatchers haven't seen skylarks in the field since the late 1970s. UVic grounds crews began mowing the field in the early 1980s. —Ed.

NOTICES

Spiritual life of children topic of lecture

The Centre for Studies in Religion & Society will present a lecture by Dr. Phillip Cook (Child & Youth Care) on Nov. 9 at 2:30 p.m. on the "Spiritual Life of Children in India's Garhwal Himalaya". The lecture will be held in Clearihue A309 and is free and open to the public. For more information, call 721-6325.

Classicism to speak on ancient theatre

Dr. Peter L. Smith (Classics) will speak on "Greek and Roman Theatres in Asia Minor" on Nov. 9 at 8 p.m. in Cornett B112. For further information, call 721-8514.

Canada on view on Hawthorne series

Victoria's highly successful Hawthorne Series of readings and chapbooks, established by UVic Professor Emeritus Robin Skelton and fellow writer Charles Lillard, is the subject of an episode of "Canada In View," to be broadcast on CHEK 6 at Noon on Oct. 29.

The program, "Courting the Muse," examines how two well-known local literary figures turned a desire to "make literature pay for itself" into a nationally-respected and self-supporting series of readings. The Hawthorne Series remains successful after six years and has generated new ventures in publishing and story-telling that provide recognition for local literary talent.

The Hawthorne Society of Arts and Letters resulted from weekly chats Skelton and Lillard had while browsing through local flea markets and junk shops on Sunday mornings. It is built on a desire by the pair to nourish Canada's national identity by looking after the needs of the local community and nurturing its grass roots.

Srivastava honoured in Italy

Dr. Hari Srivastava (Mathematics & Statistics) has been awarded the title of Honorary Professor at the Istituto per la Ricerca de Base in Monteroduni, Italy. The institute's appointment committee voted unanimously to honour Srivastava for his "outstanding internationally-known achievements."

CLASSIFIEDS

Classified ad rates will be \$10 for up to 25 words and \$.50 for each additional word. Ads will not be accepted by phone and must be delivered in writing, with cash payment, to UVic Public Relations and Information Services, University House 2. The advertising deadline is eight days before publication date. For more information please call 721-7636.

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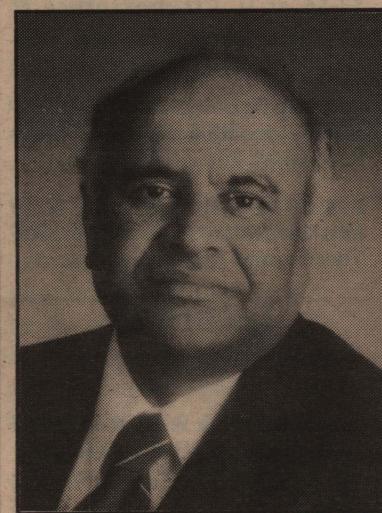
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that is available 24 hours a day. At any point during their trip through 721-UVIC's voice mail system, callers can push #9 for campus parking information.

By dialing one number, callers can learn about upcoming music performances, check out the film

line-up at Cinecenta, learn when the Vikes play their next game and access registration information for an upcoming conference—without hanging up the receiver. By entering single digit codes, callers can easily hop from one category to another.

Bhargava receives IEEE's highest honour



Bhargava

Dr. Vijay Bhargava (Electrical and Computer Engineering) has added another award to his already numerous collection of academic and professional honours. He is this year's recipient of the McNaughton Medal, the highest award given by the Institute of Electrical and Electronics Engineers (IEEE) Canada. The gold medal was named after the first president of the National Research Council General Andrew G. L. McNaughton. Bhargava was awarded the medal for his outstanding contributions to error

control coding for wireless communications and for an unsurpassed record of service to the profession. His research is directed at ensuring that the integrity of a signal is maintained, no matter what natural or man-made objects, or other signals, might stand in its path. Bhargava is investigating spread spectrum technology—high data wireless networks—that can go beyond carrying just voice signals. He envisions an increased band width that can carry video signals as well, giving people in isolated surroundings an alternative to sitting around the campfire in the evenings.

Bhargava's fascination with

wireless communication won him the 1993 B.C. Science and Engineering Gold Medal in Engineering and Applied Engineering from the Science Council of British Columbia. He is also a Fellow of the IEEE and the Engineering Institute of Canada, both of which have awarded him in the past for his accomplishments. Bhargava has also provided consulting services to BNR, MPR Teltech Ltd., Mobile Data International, GE-Ericsson and the Departments of National Defence, Communications, Transportation and to Revenue Canada.

Campus Crime Statistics

TYPE OF CRIME	SEP '94	SEP '95
Cause disturbance	11	13
Theft of wallet or purse	3	5
Theft of UVic property	5	4
Theft of bicycle	3	3
Vandalism of UVic property	8	2
Theft of private property	5	2
Vandalism to motor vehicle	1	1
Break, enter & theft	0	1
Theft of bicycle parts	4	1
Indecent exposure	1	1
Theft of computer	1	1
Vandalism of private property	2	0

The Campus Safe Walk program provided 64 escorted trips in September 1995—down from 88 in September 1994.

Emergency phone number 721-7599

UVic crime prevention programs:
RAD Self Defence for Women
Whistle Stop, Safe Walk Program
Lock It or Lose It
I Don't Drink and Drive
Personal Safety Seminars
Business Crime Prevention
Operation Bicycle Identification
Operation Provincial Identification

If you have any questions about security matters or personal safety, or wish to take part in any program, please call 721-7600.